

Vegetation Survey of the Banks Lake National Wildlife Refuge, Lanier County, Georgia

Project report submitted to:

Okefenokee National Wildlife Refuge

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by

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Introduction

Banks Lake National Wildlife Refuge (NWR) comprises 3,559 acre (1,440 ha) in Lanier County, Georgia (Anonymous 2009). It is contiguous with Grand Bay Wildlife Management Area (WMA) and Moody Air Force Base to the south and Georgia Department of Transportation Wetland Mitigation property to the northwest, and collectively these areas form a natural ecological unit consisting of Cypress-Gum Swamp, Carolina Bay wetland communities, and adjacent upland habitats (Anonymous 2009; Bergstrom et al. 1995). Despite its ecological significance, there is currently no vouchered floristic inventory for Banks Lake NWR.

The major objectives of our proposed study of Banks Lake NWR are (1) to conduct an intensive survey of the vegetation documenting the occurrence of all vascular plant species with special emphasis on rare, threatened, and endangered species (RTE) and exotic invasive species; (2) to characterize the major plant communities, according to the quantitative methodology of Peet et al. (1998); (3) to classify the plant communities according to the system developed by the Nature Conservancy (NatureServe 2008); and (4) to map the plant communities.

Methods

Species occurrences were documented through the preparation of voucher specimens, employing standard methods (Fosberg and Sachet 1965; Carter et al. 2008), and vouchers are being deposited at the Valdosta State University Herbarium (VSC). Voucher specimen data includes locality information obtained using Global Positioning System (GPS) technology, plant community type and major associated species, information on habit and other features not subject to preservation in the actual specimen, collection date, and collector's name and serial collection number. Additionally, populations of invasive, non-indigenous species and RTEs were mapped spatially using GPS technology.

Field work initiated by Valdosta State University graduate student, Melanie Nicols, commenced Summer 2009. Unfortunately, Ms Nicols dropped out of the graduate program late summer 2010. The project was continued in Spring 2011 with the assistance of Valdosta State University senior undergraduate student, James R. Sanderson. Mr. Sanderson has worked throughout Summer 2011, and he and I will continue work through Fall 2011. He has made weekly trips to Banks Lake NWR and has collected throughout the area by kayak and in peripheral areas by foot. Mr. Sanderson made 12 trips averaging about 10 hours per trip in the field. Plant taxa were vouchered, and locations of voucher specimens were taken using Global Positioning System (GPS) technology. Voucher specimens are being deposited in the Valdosta State University Herbarium (VSC). Additionally, locations of invasive, non-indigenous species and RTE species were taken using GPS.

Results

To date, the floristic inventory has resulted in more than 200 plant taxa being recorded and vouchered for Banks Lake NWR. The floristic inventory is summarized in Appendix A, including higher order classification, collector name, voucher collection number, and date of collection. Locations and GPS coordinates of non-indigenous invasive species are provided in Appendix B. A population of the state listed sedge *Schoenoplectus etuberculatus* was documented: Georgia status S(S1S2) (Anonymous 2007).

Discussion

The ending date for this project was initially scheduled for 31 December 2011. However, because of constraints imposed by the USFWS accounting office, the date for the final report was moved up to 12 August 2011. Given the unanticipated departure of the student initially engaged in this project and the revised date for completion of the project, we have not completed our quantitative community sampling and classification. It is my understanding that refuge managers will reduce the Banks Lake pool during Fall 2011. At this time, we will take advantage of the lower water levels and conduct the quantitative survey of plant communities, and we will continue to collect vouchers into November 2011 and into Spring 2012. Both updated vouchered checklist and the results of quantitative community analysis and classification will be included in an addendum to this report during Spring 2012.

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Appendix A. Vouchered list of flora documented at Banks Lake NWR.

Higher Group	Family	Scientific Name	Voucher	Citation & Date
Pteridophyta	Aspleniaceae	<i>Asplenium platyneuron</i>	Sanderson	623 5/21/2011
Pteridophyta	Blechnaceae	<i>Woodwardia areolata</i>	Sanderson	768 7/23/2011
Pteridophyta	Blechnaceae	<i>Woodwardia virginica</i>	Sanderson	660 5/28/2001
Pteridophyta	Dennstaedtiaceae	<i>Pteridium aquilinum</i>	Sanderson	653 5/28/2011
Pteridophyta	Lygodiaceae	<i>Lygodium japonicum</i>	Sanderson	776 7/23/2011
Pteridophyta	Osmundaceae	<i>Osmunda regalis</i> var. <i>spectabilis</i>	Sanderson	675 6/4/2011
Pteridophyta	Polypodiaceae	<i>Pleopeltis polypodioides</i> var. <i>michauiiana</i>	Sanderson	717 6/18/2011
Pteridophyta	Salviniaceae	<i>Salvinia minima</i>	Sanderson	613 5/21/2011
Pteridophyta	Thelypteridaceae	<i>Macrothelypteris torresiana</i>	Sanderson	658 5/28/2011
Gymnospermae	Cupressaceae	<i>Juniperus virginiana</i>	Sanderson	688 6/4/2011
Gymnospermae	Pinaceae	<i>Pinus elliottii</i>	Sanderson	743 6/18/2011
Gymnospermae	Pinaceae	<i>Pinus taeda</i>	Sanderson	715 6/18/2011
Gymnospermae	Taxodiaceae	<i>Taxodium ascendens</i>	Sanderson	608 5/21/2011
Gymnospermae	Taxodiaceae	<i>Taxodium distichum</i>	Sanderson	657 5/28/2011
Dicotyledones	Acanthaceae	<i>Ruellia caroliniensis</i>	Sanderson	652 5/28/2011
Dicotyledones	Adoxaceae	<i>Sambucus nigra</i> subsp. <i>americanus</i>	Sanderson	629 5/21/2011
Dicotyledones	Anacardiaceae	<i>Toxicodendron radicans</i>	Sanderson	601 4/25/2011
Dicotyledones	Annonaceae	<i>Asimina longifolia</i>	Sanderson	626 5/21/2011
Dicotyledones	Apiaceae	<i>Daucus pusillus</i>	Sanderson	634 5/21/2011
Dicotyledones	Apiaceae	<i>Hydrocotyle umbellata</i>	Sanderson	700 6/11/2011
Dicotyledones	Aquifoliaceae	<i>Ilex coriacea</i>	Sanderson	693 6/4/2011
Dicotyledones	Aquifoliaceae	<i>Ilex myrtifolia</i>	Sanderson	775 7/23/2011
Dicotyledones	Aquifoliaceae	<i>Ilex opaca</i>	Sanderson	783 7/23/2011
Dicotyledones	Asteraceae	<i>Bidens discoidea</i>	Sanderson	600; 611 4/25/2011
Dicotyledones	Asteraceae	<i>Bidens pilosa</i>	Sanderson	759 7/16/2011
Dicotyledones	Asteraceae	<i>Coreopsis</i>	Sanderson	763 7/23/2011
Dicotyledones	Asteraceae	<i>Coreopsis leavenworthii</i>	Sanderson	763 7/16/2011
Dicotyledones	Asteraceae	<i>Erechtites hieracifolius</i>	Sanderson	738 6/18/2011
Dicotyledones	Asteraceae	<i>Erigeron strigosus</i>	Sanderson	754 7/9/2011
Dicotyledones	Asteraceae	<i>Gamochaeta purpurea</i>	Sanderson	798 7/30/2011
Dicotyledones	Asteraceae	<i>Lactuca graminifolia</i>	Sanderson	628 5/21/2011
Dicotyledones	Asteraceae	<i>Mikania scandens</i>	Sanderson	728 6/18/2011
Dicotyledones	Asteraceae	<i>Pyrrhopappus carolinianus</i> var. <i>georgianus</i>	Sanderson	711 6/18/2011
Dicotyledones	Asteraceae	<i>Taraxacum officinale</i>	Sanderson	721 6/18/2011
Dicotyledones	Bignoniaceae	<i>Campsis radicans</i>	Sanderson	746 7/9/2011
Dicotyledones	Bignoniaceae	<i>Catalpa bignonioides</i>	Sanderson	727 6/18/2011
Dicotyledones	Brassicaceae	<i>Lepidium virginicum</i>	Sanderson	735 6/18/2011
Dicotyledones	Cabombaceae	<i>Brasenia schreberi</i>	Sanderson	604 4/25/2011
Dicotyledones	Cabombaceae	<i>Cabomba caroliniana</i>	Sanderson	602 4/25/2011
Dicotyledones	Campanulaceae	<i>Wahlenbergia marginata</i>	Sanderson	753 7/9/2011
Dicotyledones	Caprifoliaceae	<i>Lonicera japonica</i>	Sanderson	704 6/11/2011

Dicotyledones	Caprifoliaceae	<i>Lonicera sempervirens</i>	Sanderson	616	5/21/2011
Dicotyledones	Clethraceae	<i>Clethra alnifolia</i>	Sanderson	774	7/23/2011
Dicotyledones	Clusiaceae	<i>Hypericum mutilum</i>	Sanderson	655	5/28/2011
Dicotyledones	Clusiaceae	<i>Hypericum nitidum</i>	Sanderson	677	6/4/2011
Dicotyledones	Convolvulaceae	<i>Ipomoea coccinea</i>	Sanderson	799	7/30/2011
Dicotyledones	Convolvulaceae	<i>Ipomoea hederacea</i>	Sanderson	756	7/9/2011
Dicotyledones	Convolvulaceae	<i>Jacquemontia tamnifolia</i>	Sanderson	777	7/23/2011
Dicotyledones	Cornaceae	<i>Cornus florida</i>	Sanderson	647; 690	5/28/2011
Dicotyledones	Cornaceae	<i>Nyssa sylvatica</i>	Sanderson	784	7/23/2011
Dicotyledones	Cyrillaceae	<i>Cyrilla racemiflora</i>	Sanderson	643	5/28/2011
Dicotyledones	Droseraceae	<i>Drosera intermedia</i>	Sanderson	641	5/28/2011
Dicotyledones	Ebenaceae	<i>Diospyros virginiana</i>	Sanderson	780	7/23/2011
Dicotyledones	Ericaceae	<i>Leucothoe racemosa</i>	Sanderson	650	5/28/2011
Dicotyledones	Ericaceae	<i>Lyonia lucida</i>	Sanderson	635	5/21/2011
Dicotyledones	Ericaceae	<i>Pieris phillyreifolia</i>	Sanderson	597	4/25/2011
Dicotyledones	Ericaceae	<i>Rhododendron canescens</i>	Sanderson	789	7/23/2011
Dicotyledones	Ericaceae	<i>Vaccinium arboreum</i>	Sanderson	685	6/4/2011
Dicotyledones	Ericaceae	<i>Vaccinium stamineum</i>	Sanderson	745	7/9/2011
Dicotyledones	Euphorbiaceae	<i>Acalypha gracilens</i>	Sanderson	770	7/23/2011
Dicotyledones	Euphorbiaceae	<i>Aleurites fordii</i>	Sanderson	709	6/11/2011
Dicotyledones	Euphorbiaceae	<i>Chamaesyce hyssopifolia</i>	Sanderson	755	7/9/2011
Dicotyledones	Euphorbiaceae	<i>Cnidoscolus stimulosus</i>	Sanderson	747	7/9/2011
Dicotyledones	Euphorbiaceae	<i>Phyllanthus tenellus</i>	Sanderson	790	7/23/2011
Dicotyledones	Euphorbiaceae	<i>Ricinus communis</i>	Sanderson	689	6/4/2011
Dicotyledones	Euphorbiaceae	<i>Tragia urens</i>	Sanderson	686	6/4/2011
Dicotyledones	Euphorbiaceae	<i>Triadica sebifera</i>	Sanderson	726	6/18/2011
Dicotyledones	Fabaceae	<i>Albizia julibrissin</i>	Sanderson	691	6/4/2011
Dicotyledones	Fabaceae	<i>Centrosema virginiana</i>	Sanderson	760	7/16/2011
Dicotyledones	Fabaceae	<i>Chamaecrista fasciculata</i>	Sanderson	748	7/9/2011
Dicotyledones	Fabaceae	<i>Sesbania punicea</i>	Sanderson	730	6/18/2011
Dicotyledones	Fabaceae	<i>Wisteria sinensis</i>	Sanderson	739	6/18/2011
Dicotyledones	Fagaceae	<i>Quercus stellata</i>	Sanderson	676	6/4/2011
Dicotyledones	Gentianaceae	<i>Sabatia dodecandra</i>	Sanderson	662	5/28/2011
Dicotyledones	Haloragaceae	<i>Myriophyllum heterophyllum</i>	Sanderson	607	4/25/2011
Dicotyledones	Hamamelidaceae	<i>Liquidambar styraciflua</i>	Sanderson	648	5/28/2011
Dicotyledones	Iteaceae	<i>Itea virginica</i>	Sanderson	617	5/21/2011
Dicotyledones	Juglandaceae	<i>Carya glabra</i>	Sanderson	696	6/4/2011
Dicotyledones	Juglandaceae	<i>Carya illinoiensis</i>	Sanderson	786	7/23/2011
Dicotyledones	Lamiaceae	<i>Hyptis mutabilis</i>	Sanderson	800	7/30/2011
Dicotyledones	Lamiaceae	<i>Salvia lyrata</i>	Sanderson	729	6/18/2011
Dicotyledones	Lamiaceae	<i>Stachys floridana</i>	Sanderson	618	5/21/2011
Dicotyledones	Lauraceae	<i>Cinnamomum camphora</i>	Sanderson	695	6/4/2011
Dicotyledones	Lauraceae	<i>Persea palustris</i>	Sanderson	624	5/21/2011
Dicotyledones	Lauraceae	<i>Sassafras albidum</i>	Sanderson	627	5/21/2011

Dicotyledones	Lentibulariaceae	<i>Utricularia gibba</i>	Sanderson	794	7/30/2011
Dicotyledones	Lentibulariaceae	<i>Utricularia purpurea</i>	Sanderson	603	4/25/2011
Dicotyledones	Magnoliaceae	<i>Liriodendron tulipifera</i>	Sanderson	720	6/18/2011
Dicotyledones	Magnoliaceae	<i>Magnolia grandiflora</i>	Sanderson	707	6/11/2011
Dicotyledones	Magnoliaceae	<i>Magnolia virginiana</i>	Sanderson	716	6/18/2011
Dicotyledones	Malvaceae	<i>Hibiscus aculeatus</i>	Sanderson	683	6/4/2011
Dicotyledones	Malvaceae	<i>Sida rhombifolia</i>	Sanderson	766	7/23/2011
Dicotyledones	Melastomataceae	<i>Rhexia alifanus</i>	Sanderson	s.n.	6/4/2011
Dicotyledones	Melastomataceae	<i>Rhexia mariana</i>	Sanderson	731	6/18/2011
Dicotyledones	Melastomataceae	<i>Rhexia virginica</i>	Sanderson	678	6/4/2011
Dicotyledones	Menyanthaceae	<i>Nymphaoides aquatica</i>	Sanderson	606	4/25/2011
Dicotyledones	Molluginaceae	<i>Mollugo verticillata</i>	Sanderson	778	7/23/2011
Dicotyledones	Myricaceae	<i>Morella cerifera</i>	Sanderson	718	6/18/2011
Dicotyledones	Nymphaeaceae	<i>Nuphar lutea</i>	Sanderson	605	4/25/2011
Dicotyledones	Nymphaeaceae	<i>Nymphaea odorata</i>	Sanderson	612	5/21/2011
Dicotyledones	Nyssaceae	<i>Nyssa biflora</i>	Sanderson	719	6/18/2011
Dicotyledones	Nyssaceae	<i>Nyssa ogeche</i>	Sanderson	802	8/6/2011
Dicotyledones	Oleaceae	<i>Ligustrum japonicum</i>	Sanderson	769	7/23/2011
Dicotyledones	Oleaceae	<i>Ligustrum sinense</i>	Sanderson	705	6/11/2011
Dicotyledones	Oleaceae	<i>Osmanthus americanus</i>	Sanderson	781	7/23/2011
Dicotyledones	Onagraceae	<i>Ludwigia sphaerocarpa</i>	Sanderson	792	7/30/2011
Dicotyledones	Onagraceae	<i>Ludwigia virgata</i>	Sanderson	801	8/6/2011
Dicotyledones	Onagraceae	<i>Oenothera laciniata</i>	Sanderson	649	5/28/2011
Dicotyledones	Oxalidaceae	<i>Oxalis corniculata</i>	Sanderson	724	6/18/2011
Dicotyledones	Passifloraceae	<i>Passiflora incarnata</i>	Sanderson	758	7/16/2011
Dicotyledones	Phytolaccaceae	<i>Phytolacca americana</i>	Sanderson	785	7/23/2011
Dicotyledones	Polygalaceae	<i>Polygala lutea</i>	Sanderson	679	6/4/2011
Dicotyledones	Polygonaceae	<i>Rumex crispus</i>	Sanderson	723	6/18/2011
Dicotyledones	Portulacaceae	<i>Portulaca amilis</i>	Sanderson	779	7/23/2011
Dicotyledones	Ranunculaceae	<i>Clematis reticulata</i>	Sanderson	771	7/23/2011
Dicotyledones	Rosaceae	<i>Prunus caroliniana</i>	Sanderson	687	6/4/2011
Dicotyledones	Rosaceae	<i>Prunus serotina</i>	Sanderson	625	5/21/2011
Dicotyledones	Rosaceae	<i>Rubus cuneifolius</i>	Sanderson	750	7/9/2011
Dicotyledones	Rubiaceae	<i>Cephalanthus occidentalis</i>	Sanderson	610	5/21/2011
Dicotyledones	Rubiaceae	<i>Diodia virginiana</i>	Sanderson	751	6/18/2011
Dicotyledones	Rubiaceae	<i>Mitchella repens</i>	Sanderson	621	5/21/2011
Dicotyledones	Rubiaceae	<i>Richardia brasiliensis</i>	Sanderson	764	7/23/2011
Dicotyledones	Salicaceae	<i>Salix nigra</i>	Sanderson	656	5/28/2011
Dicotyledones	Sapindaceae	<i>Acer rubrum</i>	Sanderson	708	6/11/2011
Dicotyledones	Saururaceae	<i>Saururus cernuus</i>	Sanderson	636	5/21/2011
Dicotyledones	Scrophulariaceae	<i>Bacopa caroliniana</i>	Sanderson	803	8/6/2011
Dicotyledones	Scrophulariaceae	<i>Mecardonia acuminata</i>	Sanderson	673	6/4/2011
Dicotyledones	Solanaceae	<i>Solanum americanum</i>	Sanderson	619	5/21/2011
Dicotyledones	Solanaceae	<i>Solanum carolinense</i>	Sanderson	659	5/28/2011

Dicotyledones	Symplocaceae	<i>Symplocos tinctoria</i>	Sanderson	782	7/23/2011
Dicotyledones	Tetrachondraceae	<i>Polypteron procumbens</i>	Sanderson	732	6/18/2011
Dicotyledones	Urticaceae	<i>Boehmeria cylindrica</i>	Sanderson	765	7/23/2011
Dicotyledones	Verbenaceae	<i>Callicarpa americana</i>	Sanderson	672	6/4/2011
Dicotyledones	Verbenaceae	<i>Verbena brasiliensis</i>	Sanderson	787	7/23/2011
Dicotyledones	Verbenaceae	<i>Verbena rigida</i>	Sanderson	661	5/28/2011
Dicotyledones	Verbenaceae	<i>Verbena tenuisecta</i>	Sanderson	757	7/16/2011
Dicotyledones	Vitaceae	<i>Parthenocissus quinquefolia</i>	Sanderson	795	7/30/2011
Dicotyledones	Vitaceae	<i>Vitis aestivalis</i>	Sanderson	703	6/11/2011
Dicotyledones	Vitaceae	<i>Vitis rotundifolia</i>	Sanderson	702	6/11/2011
Monocotyledones	Alismataceae	<i>Sagittaria latifolia</i>	Sanderson	631	5/21/2011
Monocotyledones	Arecaceae	<i>Sabal palmetto</i>	Sanderson	749	7/9/2011
Monocotyledones	Arecaceae	<i>Serenoa repens</i>	Sanderson	772	7/23/2011
Monocotyledones	Bromeliaceae	<i>Tillandsia usneoides</i>	Sanderson	609	5/21/2011
Monocotyledones	Commelinaceae	<i>Tradescantia ohiensis</i>	Sanderson	680	6/4/2011
Monocotyledones	Cyperaceae	<i>Bulbostylis barbata</i>	Sanderson	722	6/18/2011
Monocotyledones	Cyperaceae	<i>Carex alboluteascens</i>	Sanderson	614	5/21/2011
Monocotyledones	Cyperaceae	<i>Carex caroliniana</i>	Sanderson	651	5/28/2011
Monocotyledones	Cyperaceae	<i>Carex frankii</i>	Sanderson	615	5/21/2011
Monocotyledones	Cyperaceae	<i>Carex glaucescens</i>	Sanderson	767	7/23/2011
Monocotyledones	Cyperaceae	<i>Carex lonchocarpa</i>	Sanderson	638	5/21/2011
Monocotyledones	Cyperaceae	<i>Carex verrucosa</i>	Sanderson	741	6/18/2011
Monocotyledones	Cyperaceae	<i>Cyperus croceus</i>	Sanderson	622	5/21/2011
Monocotyledones	Cyperaceae	<i>Cyperus iria</i>	Sanderson	762	7/16/2011
Monocotyledones	Cyperaceae	<i>Cyperus odoratus</i> var. <i>squarrosum</i>	Sanderson	682	6/4/2011
Monocotyledones	Cyperaceae	<i>Cyperus polystachyos</i> var. <i>polystachyos</i>	Sanderson	734	6/18/2011
Monocotyledones	Cyperaceae	<i>Cyperus polystachyos</i> var. <i>texensis</i>	Sanderson	633	5/21/2011
Monocotyledones	Cyperaceae	<i>Cyperus pseudovegetus</i>	Sanderson	663	5/28/2011
Monocotyledones	Cyperaceae	<i>Cyperus retrorsus</i>	Sanderson	761	7/16/2011
Monocotyledones	Cyperaceae	<i>Cyperus strigosus</i>	Sanderson	733; 737	6/18/2011
Monocotyledones	Cyperaceae	<i>Dulichium arundinaceum</i>	Sanderson	644	5/28/2011
Monocotyledones	Cyperaceae	<i>Eleocharis equisetoides</i>	Sanderson	639	5/28/2011
Monocotyledones	Cyperaceae	<i>Eleocharis obtusa</i>	Sanderson	666	5/28/2011
Monocotyledones	Cyperaceae	<i>Eleocharis tuberculosa</i>	Sanderson	637	5/21/2011
Monocotyledones	Cyperaceae	<i>Fuirena squarrosa</i>	Sanderson	713	6/18/2011
Monocotyledones	Cyperaceae	<i>Kyllinga odorata</i>	Sanderson	725	6/18/2011
Monocotyledones	Cyperaceae	<i>Rhynchospora caduca</i>	Sanderson	671	6/4/2011
Monocotyledones	Cyperaceae	<i>Rhynchospora corniculata</i>	Sanderson	640	5/28/2011
Monocotyledones	Cyperaceae	<i>Rhynchospora inundata</i>	Sanderson	790b	8/6/2011
Monocotyledones	Cyperaceae	<i>Rhynchospora macrostachya</i>	Sanderson	642; 742	5/28/2011
Monocotyledones	Cyperaceae	<i>Rhynchospora microcephala</i>	Sanderson	714	6/18/2011
Monocotyledones	Cyperaceae	<i>Schoenoplectus etuberculatus</i>	Sanderson	645	5/28/2011
Monocotyledones	Cyperaceae	<i>Scirpus cyperinus</i>	Sanderson	736	6/18/2011
Monocotyledones	Cyperaceae	<i>Scleria triglomerata</i>	Sanderson	670	6/4/2011

Monocotyledones	Haemodoraceae	<i>Lachnanthes caroliniana</i>	Sanderson	712	6/18/2011
Monocotyledones	Iridaceae	<i>Sisyrinchium mucronatum</i>	Sanderson	681	6/4/2011
Monocotyledones	Juncaceae	<i>Juncus bufonius</i>	Sanderson	740	6/18/2011
Monocotyledones	Juncaceae	<i>Juncus canadensis</i>	Sanderson	793	7/30/2011
Monocotyledones	Juncaceae	<i>Juncus dichotomus</i>	Sanderson	654	5/28/2011
Monocotyledones	Juncaceae	<i>Juncus diffusissimus</i>	Sanderson	664	5/28/2011
Monocotyledones	Juncaceae	<i>Juncus effusus</i>	Sanderson	630	5/21/2011
Monocotyledones	Juncaceae	<i>Juncus polycephalus</i>	Sanderson	665	5/28/2011
Monocotyledones	Juncaceae	<i>Juncus repens</i>	Sanderson	692	6/4/2011
Monocotyledones	Orchidaceae	<i>Habenaria repens</i>	Sanderson	791	7/30/2011
Monocotyledones	Orchidaceae	<i>Spiranthes praecox</i>	Sanderson	699	6/11/2011
Monocotyledones	Orchidaceae	<i>Spiranthes tuberosa</i>	Sanderson	632	5/21/2011
Monocotyledones	Poaceae	<i>Arundinaria gigantea</i>	Sanderson	788	7/23/2011
Monocotyledones	Poaceae	<i>Bambusa vulgaris</i>	Sanderson	706	6/11/2011
Monocotyledones	Poaceae	<i>Briza minor</i>	Sanderson	669	6/4/2011
Monocotyledones	Poaceae	<i>Chasmanthium sessiliflorum</i>	Sanderson	773	7/23/2011
Monocotyledones	Poaceae	<i>Dactyloctenium aegyptium</i>	Sanderson	796	7/30/2011
Monocotyledones	Poaceae	<i>Dichanthelium commutatum</i>	Sanderson	620	5/21/2011
Monocotyledones	Poaceae	<i>Digitaria ciliaris</i>	Sanderson	797	7/30/2011
Monocotyledones	Poaceae	<i>Echinochloa crus-galli</i>	Sanderson	667	5/28/2011
Monocotyledones	Poaceae	<i>Leersia hexandra</i>	Sanderson	598	4/25/2011
Monocotyledones	Poaceae	<i>Lolium perenne</i>	Sanderson	668	6/4/2011
Monocotyledones	Poaceae	<i>Panicum hemitomon</i>	Sanderson	599	4/25/2011
Monocotyledones	Poaceae	<i>Paspalum notatum</i>	Sanderson	752	7/9/2011
Monocotyledones	Poaceae	<i>Paspalum plicatulum</i>	Sanderson	744	7/9/2011
Monocotyledones	Poaceae	<i>Polypogon monspeliensis</i>	Sanderson	710	6/11/2011
Monocotyledones	Poaceae	<i>Sacciolepis striata</i>	Sanderson	697	6/11/2011
Monocotyledones	Pontederiaceae	<i>Eichhornia crassipes</i>	Sanderson	694; 701	6/4/2011
Monocotyledones	Smilacaceae	<i>Smilax bona-nox</i>	Sanderson	684	6/4/2011
Monocotyledones	Smilacaceae	<i>Smilax laurifolia</i>	Sanderson	646	5/28/2011
Monocotyledones	Smilacaceae	<i>Smilax walteri</i>	Sanderson	674	6/4/2011
Monocotyledones	Xyridaceae	<i>Xyris fimbriata</i>	Sanderson	698	6/11/2011

Appendix B. Locations of populations of non-indigenous, invasive species at Banks Lake NWR.

Key to abbreviations:

ALBIJULI	<i>Albizia julibrissin</i>
ALEUFORD	<i>Aleurites fordii</i>
BAMBVULG	<i>Bambusa vulgaris</i>
CINNCAMP	<i>Cinnamomum camphora</i>
EICHCRAS	<i>Eichornia crassipes</i>

LIGUJAPO	<i>Ligustrum japonicum</i>
LIGUSINE	<i>Ligustrum sinense</i>
LONIJAPO	<i>Lonicera japonica</i>
PHYLTENE	<i>Phyllanthus tenellus</i>
TRIASEBI	<i>Triadica sebifera</i>



